💫 SKYHAWK ΑΓ

Video Optimized and Edge Ready



SEAGATE

Seagate<sup>®</sup> SkyHawk<sup>™</sup> AI 24TB is a video-optimized drive designed for NVRs, with artificial intelligence (AI) for edge applications.



3.5 HARD DRIVE DATA SHEET Smart. Safe. Secure.

## **Best-Fit Applications**

• Network video recorders (NVR)

Al-enabled NVR systems





## Key Advantages

ImagePerfect<sup>™</sup> AI firmware delivers zero dropped frames while supporting heavier workloads.

Versatile capabilities intelligently adapt to the scale of your AI environment, supporting up to 64 HD video streams and 32 AI streams.

SkyHawk Health Management actively helps protect your video storage by focusing on prevention, intervention, and recovery options.<sup>1</sup>

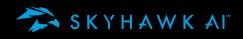
Class-Leading Reliability and Dependability SkyHawk AI drives are rated for up to 2.5M hours MTBF and a 550TB/year workload rate for more than 3x that of standard surveillance hard drives. Backed by a 5-year limited warranty.

Powerful processing to welcome workload challenges-SkyHawk AI supports video analysis and recording simultaneously with GPU analytics workloads.

Enjoy consistent performance with built-in rotational vibration sensors providing reliable storage for NVR with little lag or downtime.

Unlimited multi-bay support helps you meet your growing storage demands.

1 Contact your Seagate sales representative for further information.





Specifications	24TB	20TB	16TB	12TB
Capacity	24TB	20TB	16TB	12TB
Standard Model Numbers	ST24000VE002	ST20000VE003	ST16000VE004	ST12000VE003
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Recording Technology	CMR	CMR	CMR	CMR
Drive Design	Helium	Helium	Helium	Helium
Features and Performance		·		
Drive Bays Supported	Unlimited	Unlimited	Unlimited	Unlimited
AI Channels	32	32	32	32
AI Real Time Capture Events/Sec 1,2	Up to 120	Up to 120	Up to 120	Up to 120
AI Real Time Compare Events/Sec 1,2	Up to 96	Up to 96	Up to 96	Up to 96
HD Cameras Supported3	Up to 64	Up to 64	Up to 64	Up to 64
RV Sensors	Yes	Yes	Yes	Yes
Max Data Transfer Rate (MB/s)	285/272	285/272	285/272	285/272
Cache (MB)	512MB	512MB	512MB	512MB
Reliability/Data Integrity	· · · · · · · · · · · · · · · · · · ·			
Tarnish Resistant	Yes	Yes	Yes	Yes
Load/Unload Cycles	600,000	600,000	600,000	600,000
Nonrecoverable Read Errors Rate, Max	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15
Power-On Hours per year	8760	8760	8760	8760
Workload Rate Limit (WRL) 4	550	550	550	550
Mean Time Between Failures (MTBF) (hours)	2500000hr	2500000hr	2500000hr	2500000hr
Warranty, Limited (years) 5	5	5	5	5
Rescue Data Recovery Services (years)	3	3	3	3
Power Management				
Startup Current, Typical (12V, A)	2.0A	2.0A	2.0A	2.0A
Average Read/Write Power * (W) 7	7.8	7.8	7.8	7.8
Idle Average (W)	6.3W	6.3W	6.3W	6.3W
Standby Mode/Sleep Mode, Typical (W)	1.1/1.1W	1.1/1.1W	1.1/1.1W	1.1/1.1W
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%
Environmental/Temperature		·		
Operating (Ambient, min °C)	5°C	5°C	5°C	5°C
Operating (drive reported, max °C) 8	65°C	65°C	65°C	65°C
Nonoperating (ambient, min °C)	-40°C	-40°C	-40°C	-40°C
Physical		·		
Height (mm/in, max)	26.1mm/1.028in	26.1mm/1.028in	26.1mm/1.028in	26.1mm/1.028in
Width (mm/in, max)	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in
Depth (mm/in, max)	147.0mm/5.787in	147.0mm/5.787in	147.0mm/5.787in	147.0mm/5.787in
Weight (g/lb, typical)	685g/1.51lb	685g/1.51lb	685g/1.51lb	685g/1.51lb
Carton Unit Quantity	20	20	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8

1 Events can be human, vehicle, or object capture.

2 Tested and verified using embedded AI NVR - 64-ch HD recording, 16-ch PB. Average picture size ~250 KB

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7 .Based on IDEMA three stream workload

8. Seagate does not recommend operating at sustained extreme temperatures. Operation at high temperatures will shorten product life.

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